

**【Claims】**

1. A method for constructing a high rise building having a core and a residence space around the core, the method comprising the steps of:

(a) installing a steel-frame pillar on a shaft portion of the core;

5       (b) connecting a girder to the steel-frame pillar, the girder includes an anchor-connecting member to which a steel-frame beam is connected, a portion of the anchor-connecting member being buried in a core wall;

(c) assembling the steel-frame beam on the anchor-connecting member;

10       (d) arranging reinforcing bars in a deck plate or a slab type mold installed on the steel-frame beam, and in the core wall; and

(e) applying a slab concrete and a core concrete simultaneously or in this order.

2. The method of claim 1 wherein plural sub-connecting members for supporting the deck plate or the slab type mold are installed on the girder installed  
15       between the steel-frame pillars, the sub-connecting members including a connecting member coupled to the girder and a supporting member coupled to one end of the connecting member.

3. The method of claim 1 wherein the anchor-connecting member comprises a connecting member connected to the girder by welding or bolts, an

anchor plate connected to the connecting member by welding or bolts, a gusset plate welded on the anchor plate, and a stud or shear connector extended from the anchor plate to the concrete wall and buried in the concrete.

4. The method of claim 1 wherein the step (c) further comprises the steps
- 5 of forming a slot hole on the anchor-connecting member and coupling a high tensioned bolt in the slot hole to be assembled on the steel-frame beam.